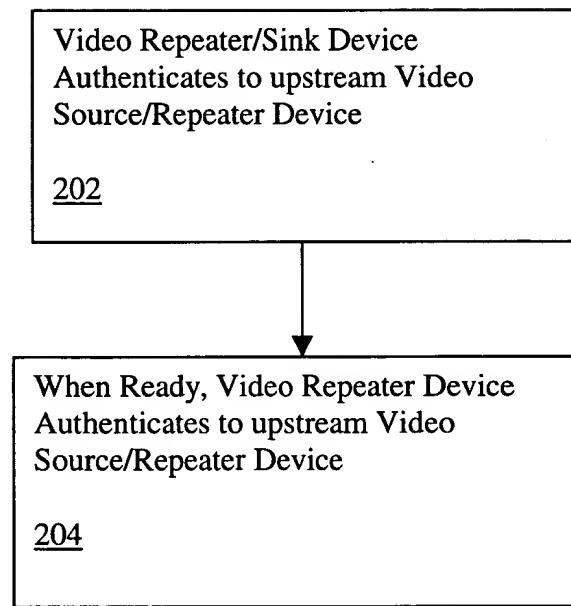
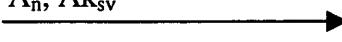


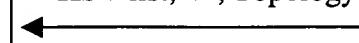
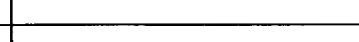
**Figure 1**



**Figure 2**

Upstream Device		Downstream Device
Video Source/Repeater Device ( $Ak_{sv}$ )		Video Repeater/Sink Device ( $Bk_{sv}$ )
Generate $A_n$	$A_n, Ak_{sv}$  $Bk_{sv}$ , Repeater 	
Generate $K_m$ ( $Akey_{sv}$ , $Bk_{sv}$ ) Generate $K_s, M_0, R_0$ ( $K_m$ , Repeater $\parallel A_n$ )		Generate $K_m$ ( $Bkey_{sv}$ , $Ak_{sv}, Bk_{sv}$ ) Generate $K_s, M_0, R_0$ ( $K_m$ , Repeater $\parallel A_n$ )
Determine if $R_0 = R_0'$	$R_0'$	

**Figure 3a**

Upstream Device		Downstream Device
Video Source/Repeater Device		Video Repeater Device
Poll Ready	  	Assemble KSV list $V' = \text{SHA-1}(KSV \text{ list} \parallel \text{Topology} \parallel M_0')$
$V = \text{SHA-1}(KSV \text{ list} \parallel \text{Topology} \parallel M_0')$ Determine if $V = V'$		

**Figure 3b**

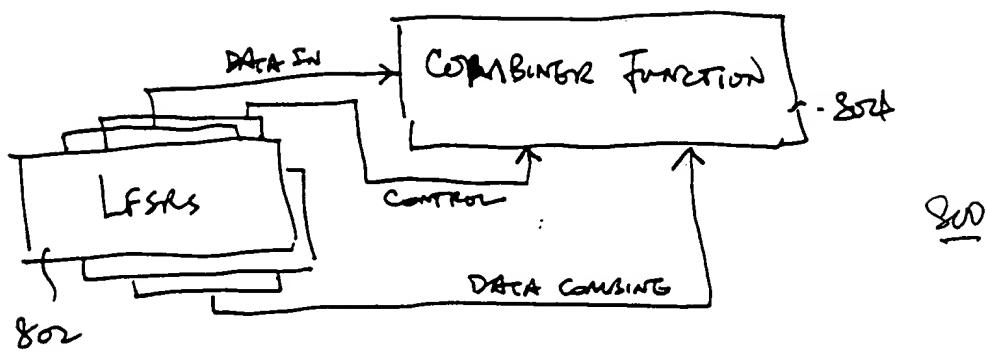


Fig. 4a

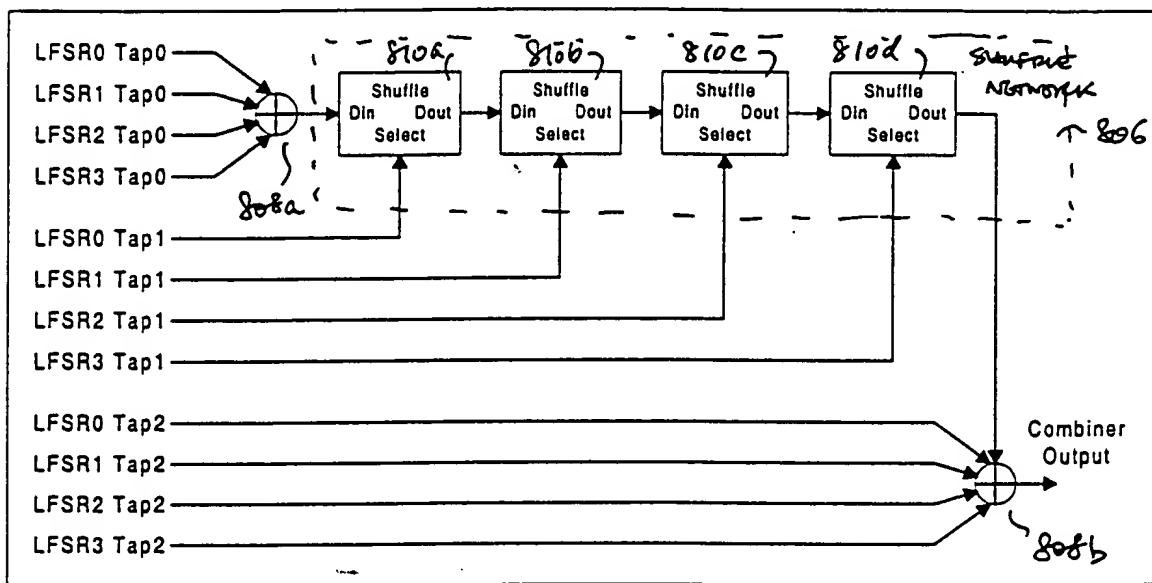


Fig. 4b

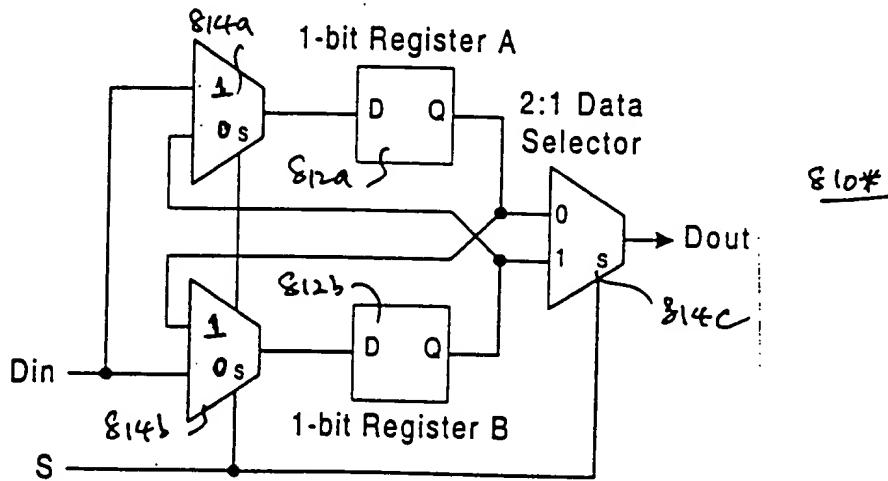


Fig. 4c